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PROGRAM CODE
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<string.h>
#include<sys/ipc.h>
#include<sys/shm.h>
#include<sys/types.h>
#define SEGSIZE 100
int main (int argc, char *argv[])
 int shmid, cntr;
 key_t key;
 char *segptr;
 char buff[] = "welcome";
 key = ftok (".", 's');
 if ((shmid = shmget (key, SEGSIZE, IPC_CREAT | IPC_EXCL | 0666)) == -1)
   if ((shmid = shmget (key, SEGSIZE, 0)) == -1)
        perror ("shmget");
        exit (1);
  }
 else
   printf ("Creating a new shared memory seg \n");
   printf ("SHMID:%d", shmid);
 system ("ipcs -m");
 if ((segptr = (char *) shmat (shmid, 0, 0)) == (char *) -1)
   perror ("shmat");
   exit (1);
 printf ("Writing data to shared memory...\n");
 strcpy (segptr, buff);
 printf ("DONE\n");
 printf ("Reading data from shared memory...\n");
 printf ("DATA:-%s\n", segptr);
 printf ("DONE\n");
 printf ("Removing shared memory Segment...\n");
 if (shmctl (shmid, IPC_RMID, 0) == -1)
  printf ("Can't Remove Shared memory Segment...\n");
 else
  printf ("Removed Successfully\n");
```

OUTPUT

